

## **SINGLE PANEL COLOR IMAGE PROJECTION SYSTEM**

Yin S. Tang

### **ABSTRACT**

A color projection system includes a lamp and at least one diffraction grating or at least one prism that diffracts light from the lamp onto an LC microdisplay panel. By moving either the at least one diffraction grating or the at least one prism with respect to the incident light from the lamp, the diffracted light received by the LC microdisplay panel sequentially comprises red, green, and blue light.